TC-K630/K630ES

SERVICE MANUAL



US Model AEP Model UK Model E Model

Canadian Model TC-K630

Model Name Using Similar Mechanism	TC-W 550
Tape Transport Mechanism Type	TCM-CMAY B-27

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Bias

AC bias

Heads

Erase head × 1 (F & F head)

Record head × 1 (Permalloy head)

Playback head × 1 (LA head)

Motors

Capstan motor × 1 (DC servo motor)

Reel motor × 1 (DC motor)

Wow and flutter

0.05% WRMS (NAB)

Fast-forward and rewind time

Approx. 90 sec. (with C-60 cassette)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	20-21,000 Hz (±3 dB) 20-16,000 Hz (0VU recording)
TYPE II cassette (Sony UX-S)	20-19,000 Hz (±3 dB)
TYPE I cassette (Sony HF-S)	20-17,000 Hz (±3 dB)

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch Cassette	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	59 dB	66 dB	72 dB
TYPE II (Sony UX-S)	58 dB	65 dB	71 dB
TYPE I (Sony HF-S)	55 dB	62 dB	68 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)



Inputs

Line inputs	Sensitivity	77.5 mV (-20 dB)
(phono jacks)	Input impedance	50 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0-2.5 mW at a load impedance of 32 ohms

General

Power requirements 120 V AC, 60 Hz

Power consumption

20 W Dimensions

Approx. $430 \times 118 \times 345$ mm (w/h/d)

 $(17 \times 4^{3}/_{4} \times 13^{5}/_{8} \text{ inches})$ including projecting parts and

controls

Weight

Approx. 5.2 kg (11 lbs 8 oz)

Supplied accessory

Audio connecting cord (2)

Design and specifications sujbect to change without



FEATURES

The TC-K630ES is a cassette deck equipped with a laseramorphous magnetic alloy head using LC-OFC winding for playback, and features the following functions.

- 3-head system (separate record, playback and erase heads) allows you to instantly check the recorded sound while recording is in progress.
- Bias control adjusts bias current to the optimum level and brings out the best in every tape.
- The Dolby HX PRO* system improves the linearity of the tape's high range response during recording.
- Easy-to-read digital linear counter shows the elapsed recording or playing time.
- AMS, blank skip and music scan functions provide easy access to a desired selection.
- * Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufusen.
- "DOLBY", the double-D symbol Dolby Laboratories Licensing Corporation.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

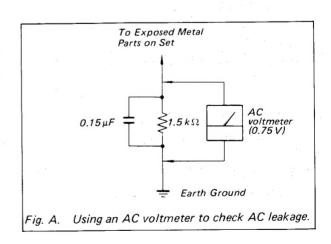
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

TC-K603

TC-K630ES

TABLE OF CONTENTS

Secti	on <u>Title</u>	_Pa	age
	ifications		1 2
1.	GENERAL		
1-1. 1-2.	Model Identification		3
2.	MECHANICAL ADJUSTMENTS		4
3.	ELECTRICAL ADJUSTMENTS		4
4.	DIAGRAMS		
4-1. 4-2. 4-3.	Semiconductor Lead Layouts		8 9 13 18
5.	EXPLODED VIEWS		
6.	ELECTRICAL PARTS LIST	•	24

1-1. MODEL IDENTIFICATION (Specification Label)

SON	~ ®	MODEL	_ NO.	
STEREO CASSE	TTE DE	СК		
		•		

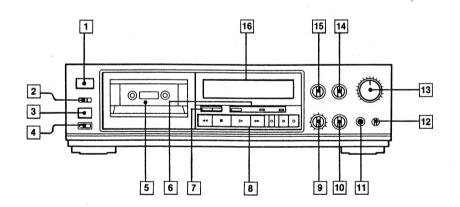
Canadian model: AC 120V 60Hz 20W

(TC-K630)

US model: AC 120V 60Hz 20W AEP model: AC 220V~50/60Hz 20W UK model: AC 240V~50/60Hz 20W

E model: AC 120, 220, 240V~50/60Hz 20W

1-2. LOCATION OF CONTROLS



- 1 POWER switch
- 2 TIMER switch
- 3 Remote sensor*
- 4 ≜ (eject) button
- 5 Cassette holder
- 6 TAPE OPERATION button AMS/BLANK SKIP and MUSIC SCAN Indicators
- 7 COUNTER buttons
- RESET button/MEMORY button
- 8 Tape operation buttons and indicators
 - ◄◄ (rewind) button
- (stop) button ► (play) button and indicator
- (fast-forward) button
- REC (record)button and indicator
- 11 PAUSE button and indicator
- O REC MUTE (record muting) button
- 9 BIAS (bias adjust) control
- 10 MONITOR switch
- 11 PHONES (headphones) jack (stereo phone jack)
- 12 LEVEL (headphones level) control
- 13 REC LEVEL (recording level) control
- 14 MPX FILTER switch
- 15 DOLBY NR switch
- 16 LINEAR COUNTER and PEAK PROGRAM METERS

* You can remotely control this cassette deck with: A remote commander that has an 🖫 mark and comes with a Sony amplifier of receiver and which can be used to control a cassette deck.

—An optional Sony remote commander that has an 📳 mark.

SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcoholmoistened swab:

pinch roller

rubber belts

record/playback head erase head

capstan idlers

- 2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.

5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

orque measurement			
Torque	Torque meter	Meter reading	
Forward	CQ-102C	30-70g•cm (0.42-0.97oz•inch)	
Forward back tension	CQ-102C	2-6g•cm (0.028-0.083oz•inch)	
FF/REW	CQ-201B	90—180g • cm (1.25—2.5oz•inch)	

SECTION 3 ELECTRICAL ADJUSTMENTS

- 1. The adjustment should be performed in the publication (Be sure to make playback adjustment at first.)
- 2. The adjustment and measurement should be performed for both L-CH and R-CH.

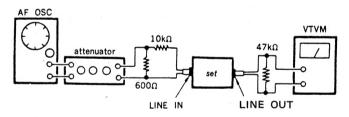
• Switch position

DOLBY NR switch: OFF TIMER switch: OFF

output signal level as follows.

• Standard record position Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard

-Record mode-



• Standard Input Level

luput terminal	LINE IN
source impedance	10kΩ
input signal level	0.25V (-10dB)

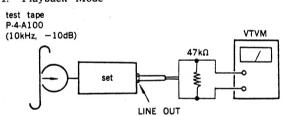
Standard Output Level

LINE OUT
47kΩ
0.44V (-5dB)

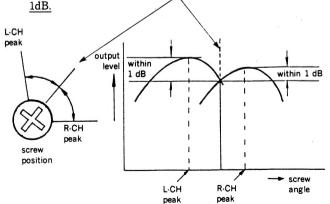
Таре	Contents		Use
P-4-A100	10kH,	-10dB	Record/Playback Head Auimuth Adjustment
WS-48B	3kHz,	0dB	Tape Speed Adjustment
P-4-L300	315Hz,	0dB	Playback Level Adjustment

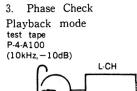
Record/Playback Head Azimuth Adjustment procedure:

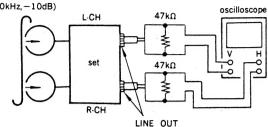
1. Playback Mode

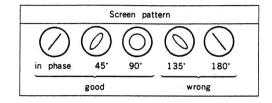


Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within







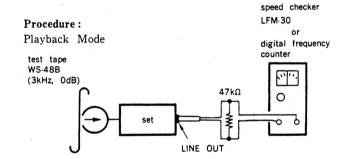


4. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location: -record/playback head-



Tape Speed Adjustment

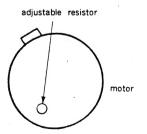


Specification:

Frequency difference between the beginning and the end of the tape shoule be within 0.08% (0.24Hz).

Adjustment Location:

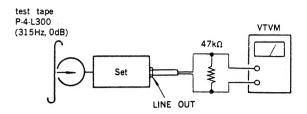
adjustment the adjustabe resistor of built in motor (adjustment by the insert to driver Speed in fastest that turn the clockwise.)



Playback Level Adjustment

Procedure:

Playback mode



Specfication:

Adjust RV101 (L-CH), RV201 (R-CH) so that within adjustment level as follows.

LINE OUT level: 0.41 to 0.46V

(-5.5 to -4.5 dB)

Level Difference between Channels: Within 0.5dB

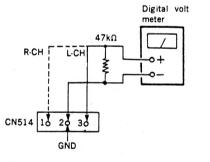
Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Bias Consumption Current Adjustment

Bias Consumption current adjustment is sure to front of record bias adjustment.

Behind the bias consumption current adjustment, record bias adjustment do over again.

- Set the center to RV152 (L-CH), RV252 (R-CH) and REC/FWD for no-signal.
- Connect CN514 with digital volt meter, adjust T151 (L-CH),
 T251 (R-CH) so that the minimum or digital volt meter.



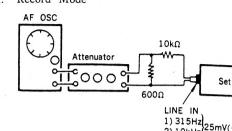
Record Bias Adjustrent

Setting:

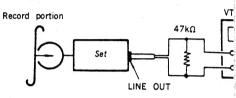
REC LEVEL knob shall be the specilied rec

Procedure:

1. Record Mode



2. Playback Mode



Adjust RV152 (L-CH), RV252 (R-CH) so that pla 10kHz is 0.5±0.3dB.

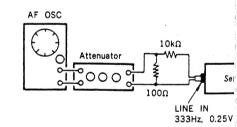
Record Level Adjustment

Setting:

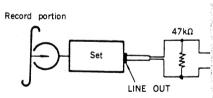
REC LEVEL knob shall be at the specified

Procedure:

1. Record Mode



2. Playback Mode



(-5.3 to -4.7 dB)

Specification:

Adjust RV151 (L-CH), RV152 (R-CH) so that will level as follows.

LINE OUT Level: CS-122 0.42 to 0.45V

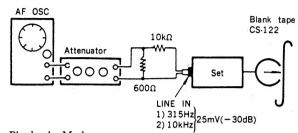
Record Bias Adjustrent

Setting:

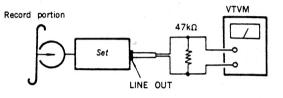
REC LEVEL knob shall be the specilied record position.

Procedure:

1. Record Mode



2. Playback Mode



Adjust RV152 (L-CH), RV252 (R-CH) so that playback output of 10kHz is 0.5±0.3dB.

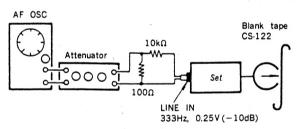
Record Level Adjustment

Setting:

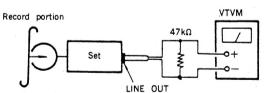
REC LEVEL knob shall be at the specified record position.

Procedure:

1. Record Mode



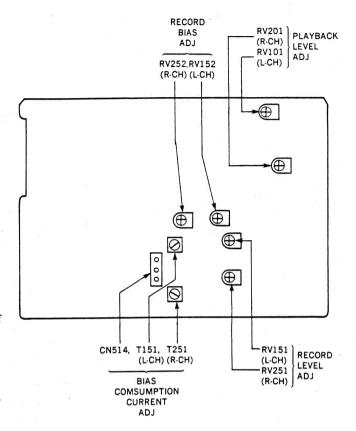
2. Playback Mode



Specification:

Adjust RV151 (L-CH), RV152 (R-CH) so that within adjustment level as follows.

LINE OUT Level: CS-122 0.42 to 0.45V (-5.3 to -4.7dB) Adjustment Location: main board





TC-K630/K630ES

SECTION 4 DIAGRAMS

Ref. No.

F-26

F-26

C-30

B-28

B-29

B-29

B-27

B-27

B-30

B-30

B-30

B-28

B-24

B-24

B-23

B-24

C-23

C-24

C-24

E-28

F-28

E-28

H-27

H-28

H-28

1-28

1-28

1.27

1-28

J-28

1-29

E-30

1-28

G-7

G-7

G-6

G-6

G-7

G-8

G-13

G-11

F-12

F-11

B-2

B-5

Q654

0655

Q701

0702

Q703

0704

Q705

0706

Q707

0708

Q709

Q710

0751

Q752

0753

Q754

0755

Q756

0757

0801

Q802

Q803

0804

0805

Q806

0807

Q808

0809

Q810

0811

Q812

0851

Q852

Q901

0902

Q903

0904

Q905

Q906

Q907

Q908

Q909

Q910

Q1001

Q1002

Location

E-12

E-12

C-18

C-20

H-19

H-21

G-23

F-20

E-18

F-16

E-26

G-28

1-26

1.29

H-29

E-29

G-8

F-13

G-10

G-32

B-19

G-18

F-22

D-29

1.18

1-22

E-19

F-19

F-22

F-22

F-22

1-22

F-23

F-23

F-24

G-24

E-23

E-23

E-22

F-22

F-20

E-27

E-27

E-27

4-1. SEMICONDUCTOR LEAD LAYOUTS • Semiconductor Location

Ref. No.

D351

D401

D451

D511

D512

D513

D514

D515

D516

D517

D701

D703

D704

D705

D706

D708

D709

D710

D711

D714

D715

D716

D717

D718

D751

D752

D753

D754

D755

D801

D802

D803

D804

D805

D806

D807

D808

D809

D851

D852

D901

D902

D903

D904

D905

Location

E-18

F-13

F-18

F-13

H-18

F-12

F-12

F-24

F-21

F-21 F-21

C-26

C-30

C-29

B-28

B-29

C-26

C-26

A-29

C-26

B-30

B-26

A-26

B-26

B-26

C-23

B-26

B-26

B-26

B-26

E-29

H-25

E-28

E-28

D-28

C-28

1-28

J-28

F-27

1-29

E-9

E-11

E-10

F-10

F-11

H-29

Ref. No.

D906

D907

IC501

IC502

IC511

IC512

IC513

IC551

IC552

IC553

IC651

IC801

IC802

IC803

JC804

IC851

IC901

IC902

IC903

IC904

Q101

Q151

Q152

0201

Q251

0252

Q301

0401

Q511

0512

Q513

Q514

0515

Q516

Q517

Q518

0518

Q519

0520

Q521

Q551

Q651

Q652

0653

DTA114ES
DTALAGE
DTA144ES
DTB114ES
DTC114ES
DTC143TS
DIC14313
DTC144ES
2SD2144S

2SA1150 2SC2785

2SA1409-L

2SA733

2SB1013

2SD1387

2SC3623-L

2SB1094-L

2SD1585-L

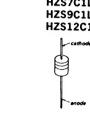
2SB1116

2SD774-3



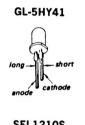
HZS7C1L HZS9C1L HZS12C1L	
cethode	

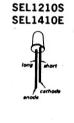
HZS6A1L

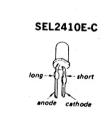












SEL2410E-C
long Short
11
anode cathode





- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- % : indicates tolerance.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark: PLAY

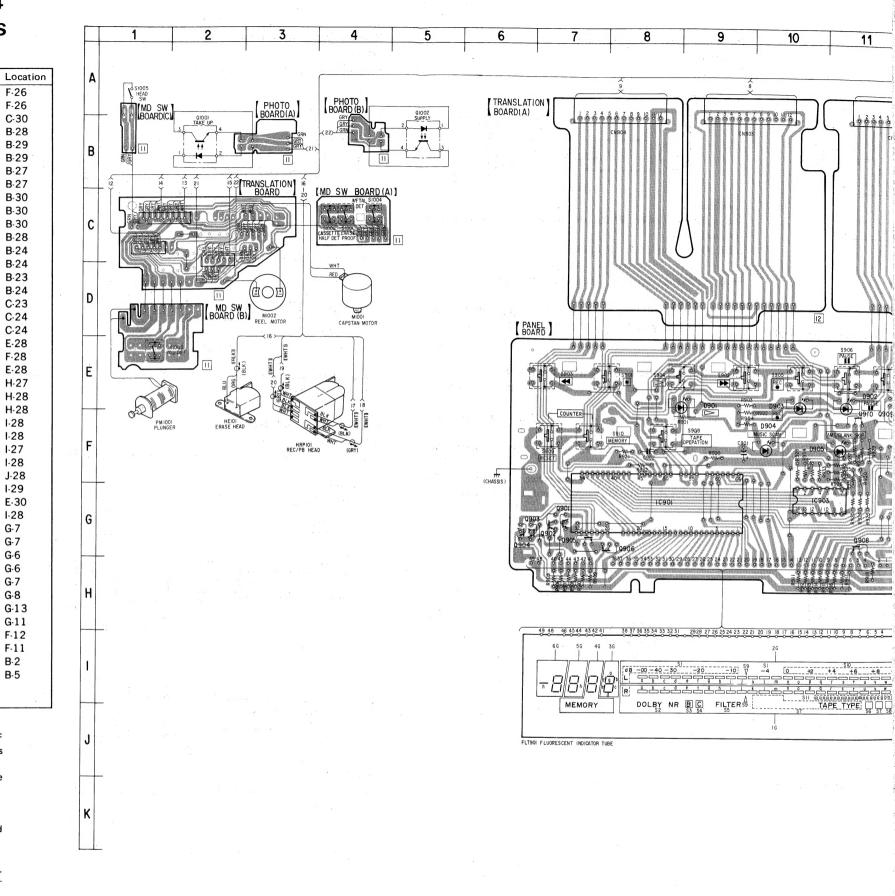
• Voltages are taken with a VOM (Input impedance $10M\Omega$). Voltage variations may be noted due to normal produc-

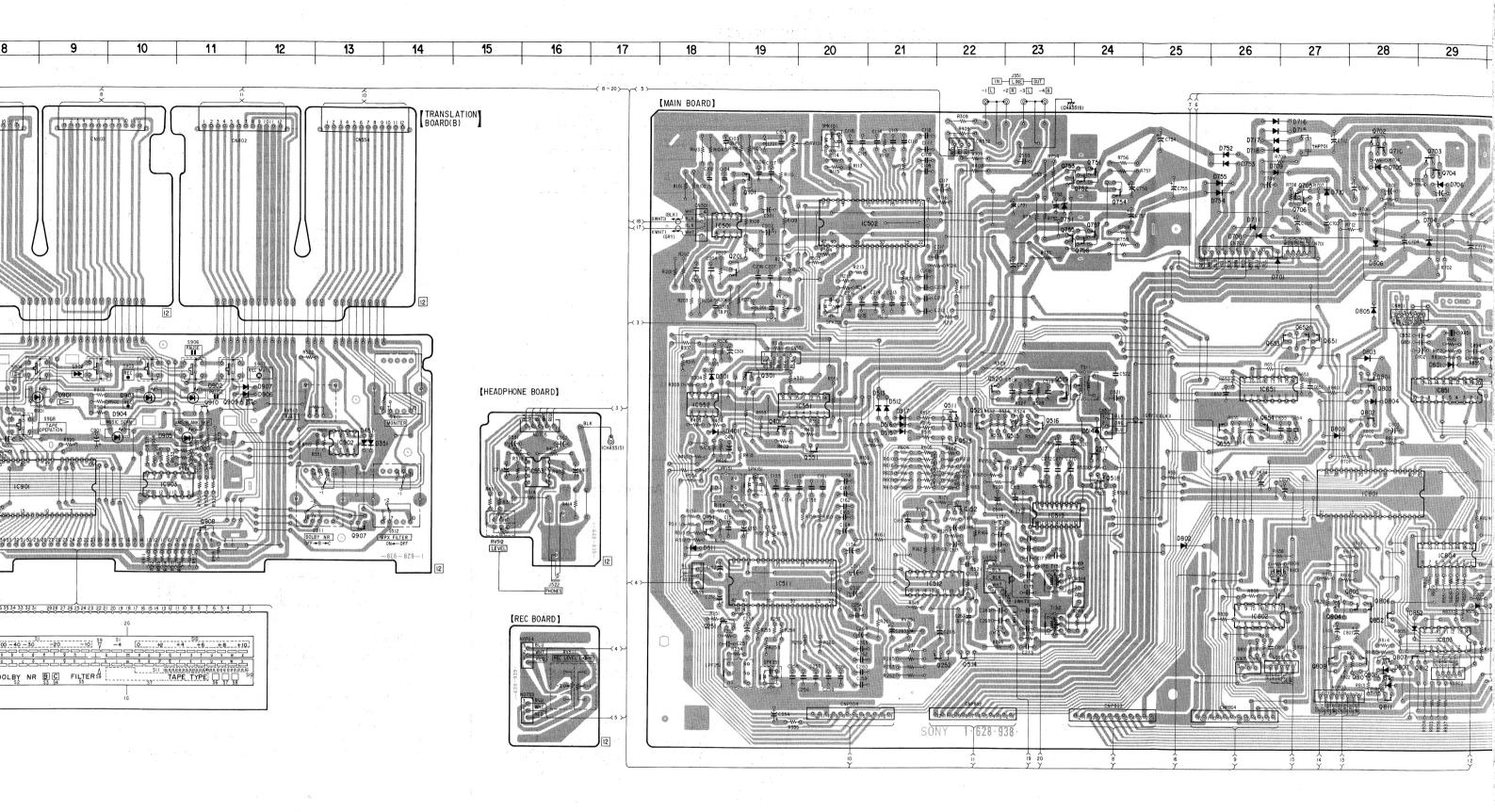
Note on Printed Wiring Boards:

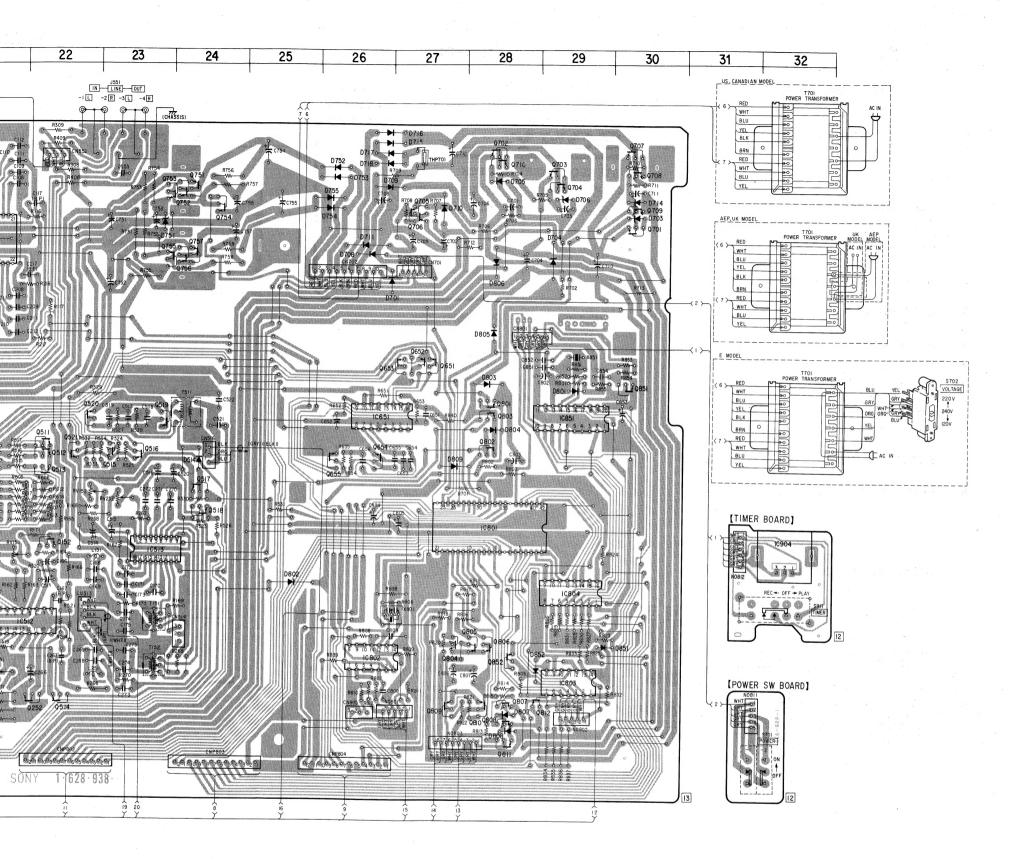
- o---: parts extracted from the component side.
- [] indicates side identified with part number.

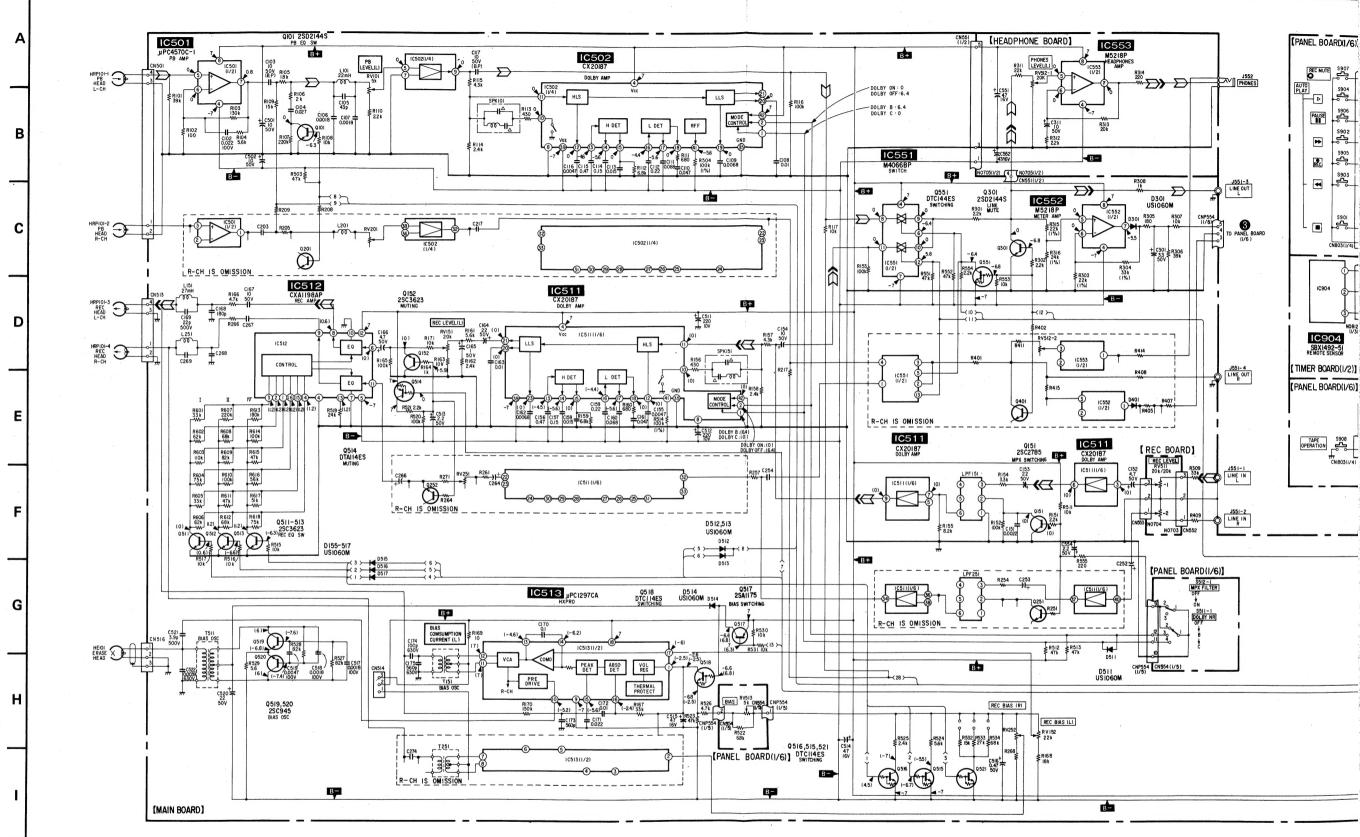
-8-

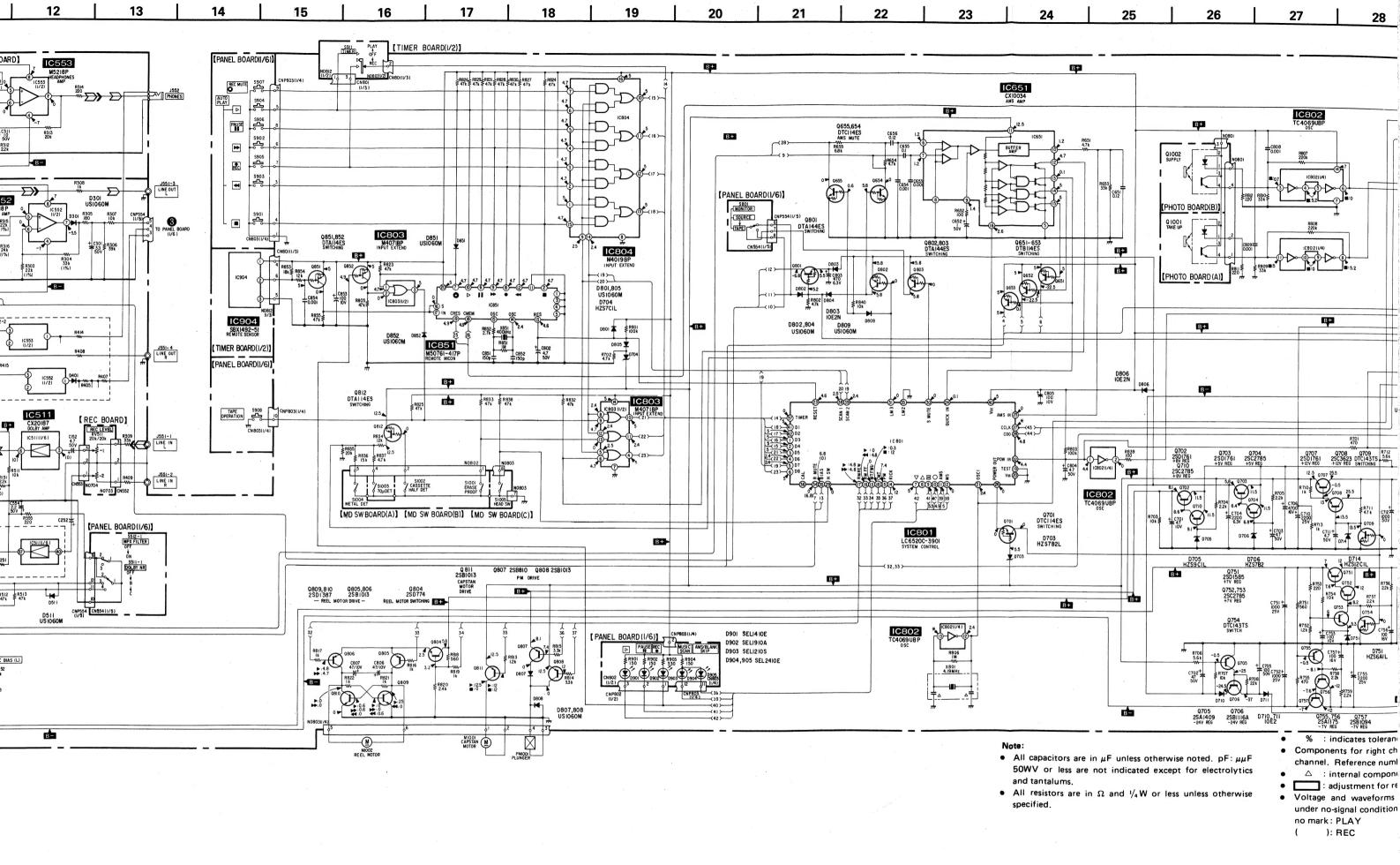
4-2. PRINTED WIRING BOARDS

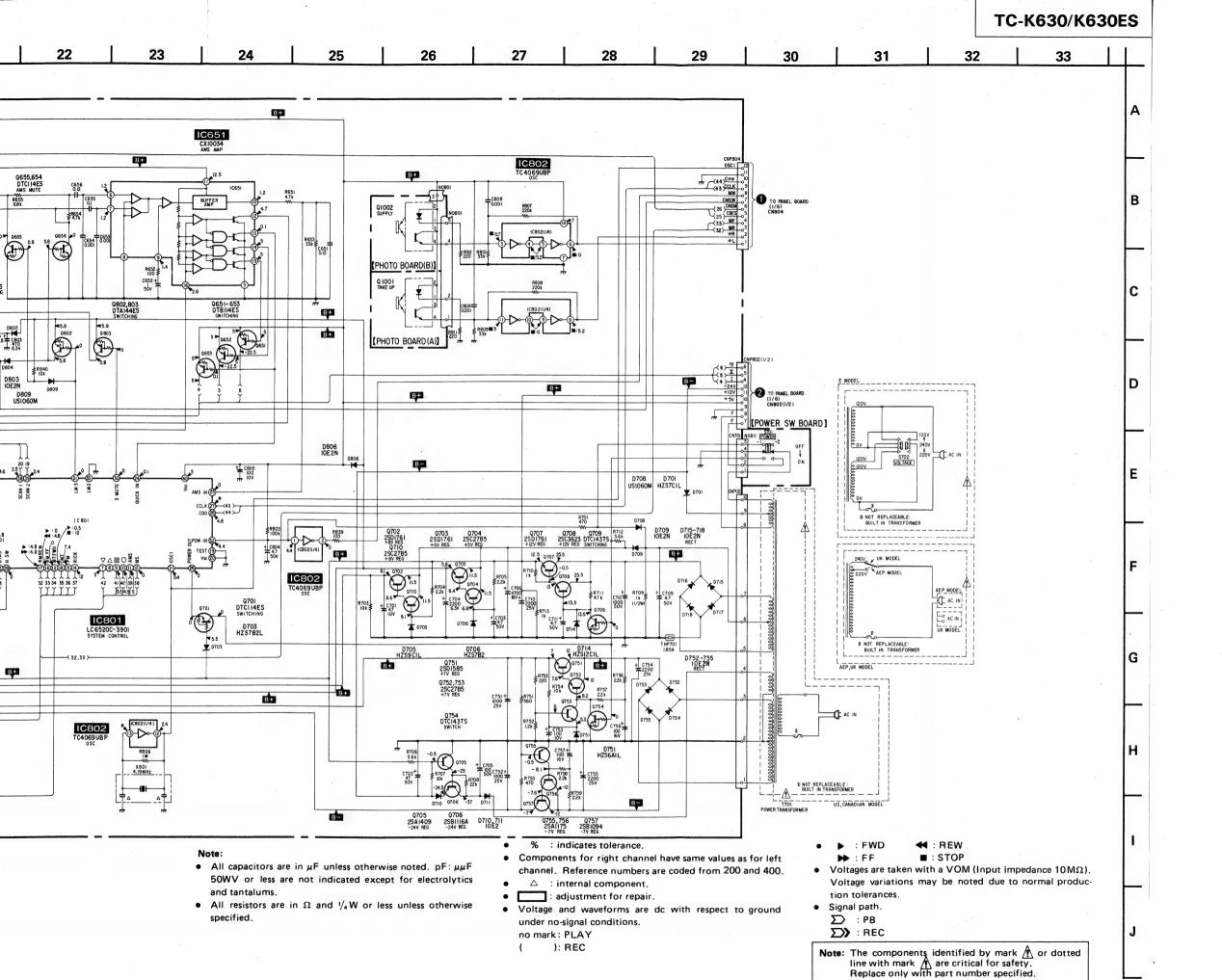




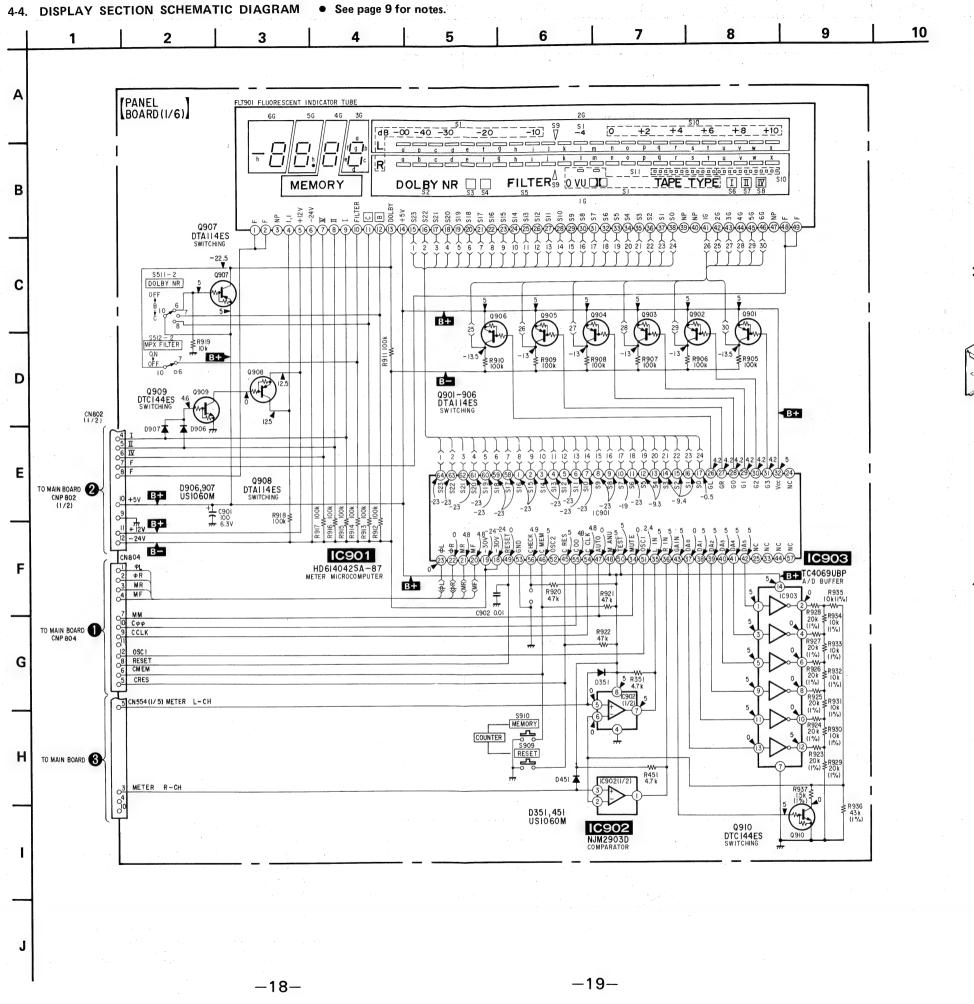








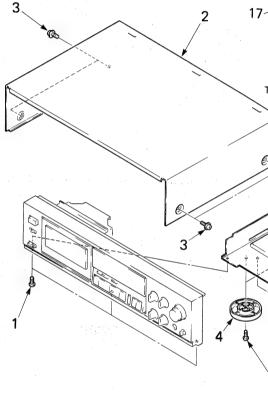
-17-



NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

(1) CABINET SECTION



1	3-703-685-21 3-350-407-41	SCREW (+BV 3X8) CASE
2	3-704-366-01	SCREW (CASE) (M3X8)
4	X-4885-935-1 X-4911-201-1	(K630ES)FOOT ASSY (K630)FOOT ASSY
5	7-682-548-04	SCREW +BVTT 3X8 (S)
6	*3-669-610-00	SPACER
7	*3-346-265-11	HOLDER, PC BOARD
8	*4-924-098-11	HOLDER, PC BOARD
9	7-682-547-04	SCREW +BVTT 3X6 (S)
10	*3-309-144-21	HEAT SINK
11	4-870-539-00	PLATE, GROUND
12	*4-363-146-21	HEAT SINK, V.OUT
13	7-685-646-79	SCREW +BVTP 3X8 TYPE2
14	*3-350-406-21 *3-350-406-31 *3-350-406-41 *3-350-406-51 *3-350-406-71	(AEP)PANEL, BACK (US)PANEL, BACK (UK)PANEL, BACK (E)PANEL, BACK (K630)PANEL, BACK
	3-330-400-71	(NOSO) I ANLL , DAON

Part No.

Description



• The mechanical parts with no reference number in the exploded views are not

• The construction parts of an assembled part are indicated with a collation number in the remark column.

 Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

NOTE:

10

0 +2 +4 +6 +8 +10

SI TAPE TYPE II II W SI

50(31)(32)(33)(34)(35)(36)(37)(38)(39)(40)(41)(42)(43)(44)(45)(46)(47)(48)(

<B+

• Due to standardization, parts with part number suffix -XX and -X may be dif-ferent from the parts specified in the components used on the set.

Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE)

Cabinet's Color

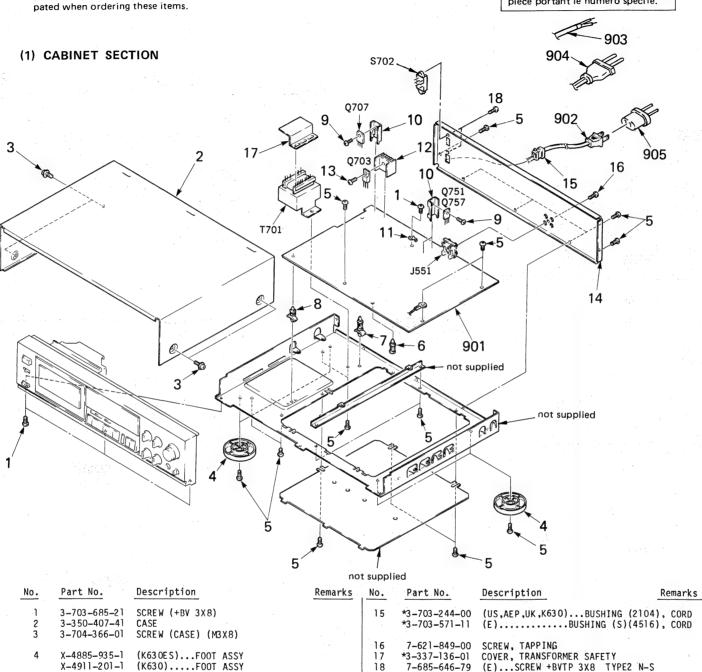
Parts' Color

The components identified by mark \(\hat{\Lambda}\) or dotted line with mark \(\hat{\Lambda}\) are critical for safety.

Replace only with part number

Les composants identifiés par une marque 🐧 sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.

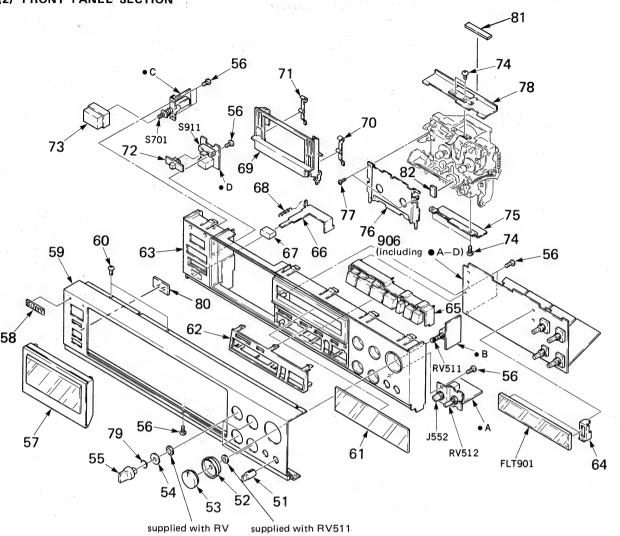


*3-703-244-00 (US,AEP,UK,K630)...BUSHING (2104), CORD *3-703-571-11 (E)......BUSHING (S)(4516), CORD 7-621-849-00 SCREW, TAPPING *3-337-136-01 COVER, TRANSFORMER SAFETY 7-685-646-79 (E)...SCREW +BVTP 3X8 TYPE2 N-S *A-2056-440-A MOUNTED PCB, MAIN 901 7-682-548-04 SCREW +BVTT 3X8 (S) *3-669-610-00 SPACER *3-346-265-11 HOLDER, PC BOARD *4-924-098-11 HOLDER, PC BOARD 902 <u>A</u>.1-551-188-XX (E)......CORD, POWER <u>A</u>.1-555-465-00 (US,K630)...CORD, POWER 903 <u>A</u>.1-551-884-32 (UK)....CORD, POWER 904 <u>A</u>.1-555-795-00 (AEP)...CORD, POWER, EULO PLUG 905 <u>A</u>.1-526-565-00 (E)...AC PLUG ADAPTOR 7-682-547-04 SCREW +BVTT 3X6 (S) *3-309-144-21 HEAT SINK 4-870-539-00 PLATE, GROUND *4-363-146-21 HEAT SINK, V.OUT \$702 ★ .1-570-307-11 (E)... SWITCH, VOLTAGE CHANGE T701 <u>A</u>.1-449-484-11 (AEP,UK)...TRANSFORMER, POWER T701 <u>A</u>.1-449-575-11 (E)......TRANSFORMER, POWER T701 <u>A</u>.1-449-576-11 (US,K630)...TRANSFORMER, POWER 7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3 *3-350-406-21 (AEP)....PANEL, BACK *3-350-406-31 (US).....PANEL, BACK *3-350-406-41 (UK)....PANEL, BACK *3-350-406-51 (E).....PANEL, BACK *3-350-406-71 (K630)...PANEL, BACK -20-

19-

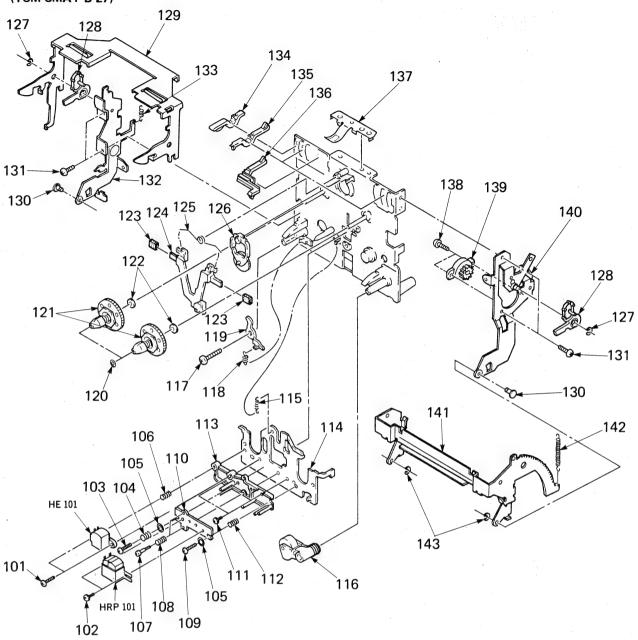
R922 47 k —W—

(2) FRONT PANEL SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-921-921-11	KNOB (M)		65	X-3304-939-1	BUTTON ASSY	
52	3-332-589-01	KNOB (REC VOL-LEFT)		66	*3-332-564-01	SLIDER (EJC)	
53	3-332-590-01	KNOB (REC VOL-RIGHT)		67	3-343-698-11	BUTTON (EJECT)	
54	3-350-416-01	SPACER '		68	3-571-829-00	SPRING, TENSION	
55	4-908-097-21	KNOB		69	X-3332-448-1	HOLDER ASSY, CASSETTE	
56	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S		70	3-307-372-00	SPRING (RIGHT)	
57	A-2169-137-A	LID ASSY, CASSETTE		71	3-307-371-00	SPRING (LEFT)	
				72	3-307-538-21		
58	4-908-848-01	(K63 OES)EMBLEM, SONY		73	4-917-460-01	KNOB POWER	
	4-925-334-11	(K630)EMBLEM (5-A). SONY					
				74	7-682-547-04	SCREW +BVTT 3X6 (S)	
59	3-350-404-31	(US)PANEL, FRONT		75	*3-332-560-01	BRACKET (MDB)	
	3-350-404-41	(AEP,UK)PANEL, FRONT		76	*3-332-547-01	PLATE, ORNAMENTAL	
	3-350-404-51	(E)PANEL, FRONT		77	7-621-772-00	SCREW +B 2X3	
	3-350-404-81	(K630)PANEL, FRONT		78	*3-332-561-01	BRACKET (MDU)	
60	7-685-873-01	SCREW +BVTT 3X8 (S)		79	3-350-426-01	SPRING	
61	3-318-698-01	WINDOW (M)		80	3-712-704-11	PLATE (SMALL), TRANSPARENT	
62	X-3304-941-1	PLATE (B) ASSY, ORNAMENTAL		81	*4-913-199-01	CUSHION (D), CHASSIS	
63	3-350-405-01	PANEL (BASE)		82	*4-917-633-01	DAMPER (B)	
64	*3-318-695-01	HOLDER (FL)		906	*A-2056-441-A	MOUNTED PCB, PANEL	
				1			

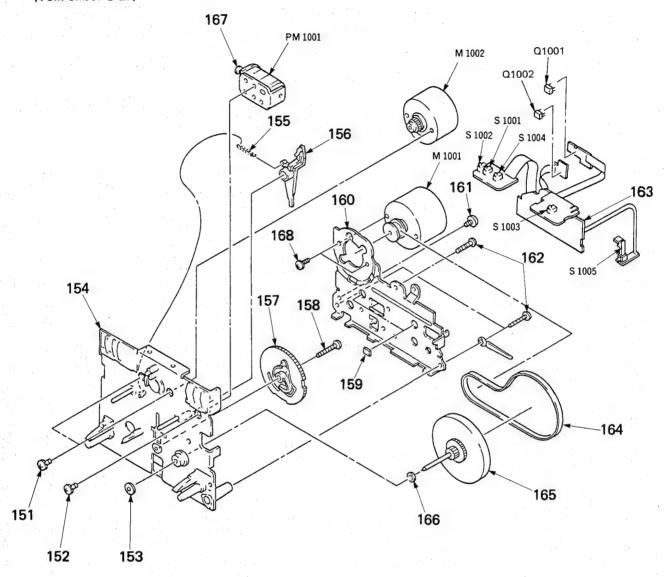
(3) MECHANISM SECTION (1) (TCM-CMAY B-27)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101 102 103 104	7-621-955-75 7-621-255-15 3-392-718-01 3-392-716-01	SCREW +P 2X3 SCREW (M2X12) (SPECIAL), BIND		124 125 126 127	3-392-723-01 3-391-124-01 X-3391-111-1 7-624-105-04	LEVER (B), HOLD SPRING IDLER ASSY STOP RING 2.3, TYPE -E	
105	7-688-001-01	W 2, SMALL		128	3-391-185-01	LEVER, STOP	
106 107 108 109 110	3-391-101-01 3-392-719-01 3-392-715-01 7-621-255-55 *3-392-714-01 3-392-734-01	SCREW, TILT SPRING SCREW +P 2X8 SPACER, 3 HEAD		129 130 131 132 133 134	*3-391-180-01 3-391-183-01 7-621-773-86 *X-3391-152-1 3-391-181-01 3-392-725-01	ARM, EJECT SHAFT (B), HOLDER FULCRUM SCREW +PTT 2.6X4 (S) ARM ASSY, EJECT SP, LEVER RETURN LEVER	
112 113 114 115 116 117	3-3 92-717-01 *3-3 92-713-01 *3-3 92-712-01 3-3 91-114-01 3-3 92-731-01 3-3 92-733-01	PLATE, BASE, HEAD BASE, HEAD SPRING PINCH ROLLER (R) ASSY		135 136 137 138 139	3-392-724-01 3-392-726-01 3-391-177-01 7-621-255-15 X-3391-151-1	LEVER LEVER SPRING SCREW +PTT 2X3 (S) DAMPER ASSY	
118 119 120 121 122 123	3-391-123-01 3-391-105-01 3-701-436-11 X-3391-107-1 3-392-711-01 3-392-728-01	ARM (B), EJECT SAFETY WASHER, 1.6 POLYETHYLENE REEL ASSY, T.U	_2		*3-392-722-01 *3-391-182-01 3-391-184-01 7-624-102-04 1-543-375-11 1-543-593-11	PLATE HOLD BLK HOLDER, CASSETTE SPRING STOP RING 1.5, TYPE -E HEAD, ERASE (EF-701-36) HEAD, MAGNETIC (REC/PB)	

-21-

(4) MECHANISM SECTION (2) (TCM-CMAY B-27)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151 152 153 154	7-621-770-67 7-621-759-25 3-391-119-01 3-392-710-01	SEAL, WASHER OIL		165 166 167 168	X-3391-133-1 3-701-438-11 *3-392-707-01 7-628-253-90	ASSY F/W WASHER, 2.5 SOLENOID (ARBOR) SCREW +PS 2.6X4	
155 156 157 158 159	3-392-730-01 3-392-727-01 3-391-197-01 3-392-732-01 3-391-129-01			M1 001 M1 002 PM1 001 Q1 001 Q1 002	X-3391-130-1 3-392-709-01 1-454-440-21 1-807-509-11 1-807-509-11	MOTOR ASSY MTR REEL BLK SOLENOID, PLUNGER PHOTO SENSOR (HEAD SW) PHOTO SENSOR (HEAD SW)	
160 161 162 163 164	*3-392-720-01 7-682-546-04 7-685-131-19 *3-392-721-01 3-392-729-01	SCREW +PTT 3X5 (S) SCREW +P 2.6X4 TYPE2 NON-SLIT		\$1001 \$1002 \$1003 \$1004 \$1005	1-571-081-11 1-571-081-11 1-571-081-11 1-571-081-11 1-571-820-11	SWITCH (ERASE PROOF) SWITCH (CASSETTE HALF DET) SWITCH (7Ou DET) SWITCH (METAL DET) SWITCH, LEAF	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms.
 F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ , for example: UA...: μ A..., UPA...: μ PA..., UPC...: μ PD...

The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une

pièce portant le numéro spécifié.

Ref.No	. Part No.	Description				Ref.No.	Part No.	Description			
901	*A-2056-440-A	MOUNTED PCB,	MAIN		Ì	C174 C175	1-136-433-11	FILM FILM	100PF 560PF	5% 5%	630V 630V
902	↑1-551-188-XX ↑1-555-465-00	(E) (US,K630)	CORD, POWER			C301	1-123-382-00	ELECT	3.3MF	20%	50V
903	A.1-551-884-32	(UK)CORD	DOUTE			C311 C501	1-123-875-11 1-123-875-11	ELECT	1 OMF 1 OMF	20% 20%	50V 50V
	△.1-555-795-00 △.1-526-565-00		, POWER, EUL	O. PLUG		C502	1-123-875-11	ELECT	1 OMF	20%	50V
906	*A-2056-441-A	MOUNTED PCB				C511 C512	1-126-176-11 1-126-176-11	ELECT ELECT	22 OMF 22 OMF	20% 20%	10V 10V
C1 02 C1 03	1-130-973-00 1-124-657-00	FILM ELECT	0.022MF 10MF	5% 20%	100V 50V	C513	1-124-925-11	ELECT	2.2MF	20%	50V
C104		MYLAR	0.027MF	5%	500	C514 C515	1-124-477-11 1-124-477-11	ELECT ELECT	47MF 47MF	20% 20%	16V 16V
C105	1-102-966-00	CERAMIC	43 PF	5%	50V	C516	1-124-902-00	ELECT	0.47MF	20%	507
C106 C107	1-130-474-00 1-130-474-00	MYLAR MYLAR	0.0018MF 0.0018MF	5% 5%	50V 50V	C517	1-136-253-11	FILM	0.0018MF	5%	100V
C107	1-130-4/4-00	MILAK	0.001004	3 %	301	C518	1-136-253-11	FILM	0.0018MF	5%	1000
C108		FILM	0.01MF	5%	507	C51.9	1-136-233-11	FILM	0.0047MF	5%	1007
C109	1-130-481-00 1-136-161-00	MYLAR FILM	0.0068MF 0.047MF	5% 5%	50V 50V	C520	1-126-233-11	ELECT	22MF	20%	507
				Γø	cov	C521	1-107-045-00	MICA	3.9PF 0.0039MF	0.5PF 5%	500V 63 0V
C111 C112	1-136-163-00 1-136-169-00	FILM FILM	0.068MF 0.22MF	5% 5%	50V 50V	C522	1-136-558-11	· FILM	0.003 9MF	3 %	0304
C113	1-136-155-00	FILM	0.015MF	5%	50V	C551	1-124-477-11	ELECT	47MF	20%	167
C114	1-136-167-00	FILM	0.15MF	5%	50V	C552 C553	1-124-477-11	ELECT MYLAR	47MF 0.022MF	20% 5%	16V 50V
C115	1-136-173-00	FILM	0.47MF	5%	50V						
C116	1-130-479-00	MYLAR	0.0047MF	5%	50V	C554 C651	1-124-925-11	FILM	2.2MF 0.12MF	20% 5%	50V 50V
C117	1-124-657-00	ELECT	1 OMF	20%	50V	C652	1-124-499-11		1MF	20%	50V
C151 C152	1-130-475-00 1-124-927-11	MYLAR ELECT	0.0022MF 4.7MF	5% 20%	50V 50V	C653	1-162-294-31	CERAMIC	0.001MF	10%	50V
C132	1-124-327-11	ELECT	4.781	200		C654	1-162-294-31	CERAMIC	0.001MF	10%	507
C153 C154	1-126-233-11 1-124-657-00	ELECT ELECT	22MF 1 OMF	20% 20%	50V 50V	C655	1-136-165-00	FILM	0.1MF	5%	50V
C155	1-130-479-00	MYLAR	0.0047MF	5%	500	C656		FILM	0.12MF	5%	507
C156	1-136-173-00	FILM	0.47MF	5%	50V	C701 C702	1-124-446-11 1-124-910-11	ELECT ELECT	47MF 47MF	20% 20%	10V 50V
C150	1-136-173-00	FILM	0.47MF 0.15MF	5%	50V 50V			FFFOI			
C158	1-136-155-00	FILM	0.015MF	5%	507	C703	1-124-927-11 1-124-893-11	ELECT ELECT	4.7MF 2200MF	20% 20%	50V 6.3V
C159	1-136-169-00	FILM	0.22MF	5%	50 V	C705	1-124-122-11	ELECT	100MF	20%	507
C160	1-136-163-00	FILM	0.068MF	5%	50V	C706	1-124-898-11	ELECT	4700MF	20%	167
C161	1-136-161-00	FILM	0.047MF	5%	50V	C709	1-124-927-11	ELECT	4.7MF	20%	50V
C1 62	1-130-481-00	MYLAR	0.0068MF	5%	50V	C710	1-124-563-11	ELECT	2200MF	20%	25V
C163 C164	1-136-153-00 1-126-233-11	FILM	0.01MF 22MF	5% 20%	50V 50V	C711	1-124-927-11	ELECT	4.7MF	20%	50V
						C712	1-124-637-11	ELECT	1000MF	20%	50V
C165 C166	1-124-499-11	ELECT	1MF 4.7MF	20% 20%	50V 50V	C751	1-124-557-11	ELECT	1000MF	20%	25V
C167	1-124-657-00	ELECT	1 OMF	20%	50V	C752	1-124-557-11	ELECT	1000MF	20%	25V
C168	1-162-285-31	CERAMIC	180PF	10%	50V	C753 C754	1-124-443-00 1-124-563-11	ELECT	100MF 2200MF	20% 20%	10V 25V
C169	1-107-210-00	MICA	22PF	5%	500V					100	
C1 70	1-136-165-00	FILM	0.1MF	5%	50V	C755 C756	1-124-563-11 1-126-101-11	ELECT	2200MF 100MF	20% 20%	25V 16V
C171	1-136-157-00	FILM	0.022MF	5%.	50V	C757	1-126-101-11	ELECT	100MF	20%	167
C1 72 C1 73	1-136-153-00	FILM	0.01MF	5%	50V						
U1/3	1-130-468-00	MYLAR	560PF	5%	50V						

F	ef.No.	Part No.	Description			1	Ref.No.	Part No.	Description
	C802 C803 C804	1-124-927-11 1-124-472-11 1-124-927-11		4.7MF 470MF 4.7MF	20% 20% 20%	50V 6.3V 50V	D718 D751 D752	8-719-200-77 8-719-933-33 8-719-200-77	DIODE 10E2N DIODE HZS6A1L DIODE 10E2N
	C805 C806 C807	1-124-443-00 1-124-446-11 1-124-446-11	ELECT	100MF 47MF 47MF	20% 20% 20%	10V 10V 10V	D753 D754 D755	8-719-200-77 8-719-200-77 8-719-200-77	DIODE 10E2N DIODE 10E2N DIODE 10E2N
	C808 C809 C851	1-162-294-31 1-162-294-31 1-162-284-31	CERAMIC	0.001MF 0.001MF 150PF	10% 10% 10%	50V 50V 50V	D801 D802 D803	8-719-000-26 8-719-000-26 8-719-200-77	DIODE US1060M DIODE 10E2N
	C852 C853 C854	1-162-284-31 1-124-443-00 1-162-294-31		150PF 100MF 0.001MF	10% 20% 10%	50V 10V 50V	D804 D805 D806	8-719-000-26 8-719-000-26 8-719-200-77	DIODE US1060M DIODE US1060M DIODE 10E2N
	C901 C902	1-126-177-11 1-161-379-00		100MF 0.01MF	20% 30%	6.3V 16V	D807 D808 D809	8-719-000-26 8-719-000-26 8-719-000-26	DIODE US1060M DIODE US1060M DIODE US1060M
	CN513	*1-564-507-11 *1-564-507-11 *1-564-506-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 4P			D851 D852 D901	8-719-000-26 8-719-000-26 8-719-302-52	DIODE US1060M DIODE US1060M DIODE SEL1410E
	CN551	*1-564-506-11 *1-564-508-11 *1-564-506-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 5P		**	D902 D903 D904	8-719-941-46 8-719-302-45 8-719-301-43	DIODE GL-5HY41 DIODE SEL1210S DIODE SEL2410E-C
	CN554	*1-564-506-11 *1-566-827-11 *1-564-339-00	PLUG, CONNECT SOCKET, CONN PIN, CONNECT	OR 5P			D905 D906 D907	8-719-301-43 8-719-000-26 8-719-000-26	DIODE SEL2410E-C DIODE US1060M DIODE US1060M
	CN801	*1-564-513-11 *1-564-340-00	PLUG, CONNECT	OR 6P			FLT901	1-519-491-11	INDICATOR TUBE, FLUORESCENT
	CN802	*1-566-827-11	SOCKET, CON				HE101	1-543-375-11	HEAD, ERASE (EF-701-36)
	CN804	*1-566-827-11 *1-566-827-11	SOCKET, CONN	ECTOR 12P			HRP101	1-543-593-11	HEAD, MAGNETIC (REC/PB)
	CNP554 CNP802	*1-564-506-11 *1-566-826-11 *1-566-826-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 12P			IC501 IC502 IC511	8-759-111-44 8-752-018-70 8-752-018-70	IC CX20187
		*1-566-826-11 *1-566-826-11 8-719-000-26	PLUG, CONNECT PL	TOR 12P			IC512 IC513 IC551	8-752-033-61 8-759-106-56 8-759-601-43	IC CXAll98AP IC UPCl297CA IC M4066BP
	D351 D401	8-719-000-26 8-719-000-26	DIODE US1060	DM DM			IC552 IC553 IC651	8-759-945-58 8-759-601-02 8-759-700-46	IC RC4558P IC M5218P IC CX10034
	D512	8-719-000-26 8-719-000-26 8-719-000-26	DIODE US1060)M)M			IC801 IC802 IC803	8-759-821-29 8-759-240-69 8-759-240-71	IC LC652 OC-3 901 IC TC4069UBP IC TC4071BP
	D513 D514 D515	8-719-000-26 8-719-000-26		M M			IC804 IC851 IC901	8-759-601-19 8-759-604-07 8-759-302-98	IC M4019BP IC M50761-423P IC HD614042SA87
	D516 D517 D701	8-719-000-26 8-719-000-26 8-719-933-49	DIODE US1060 DIODE HZS7C1)M L			IC902 IC903	8-759-928-03 8-759-240-69	IC NJM2 903 D IC TC4069UBP
	D703 D704 D705	8-71 9-933-47 8-71 9-933-49 8-71 9-933-59	DIODE HZS7C	IL .		V	J551 J552	8-749-901-49 1-565-258-11 1-507-796-71	IC SBX1492-51 JACK, PIN 4P (LINE IN/OUT) JACK (PHONES)
	D706 D708 D709	8-719-933-47 8-719-000-26 8-719-200-77	DIODE HZS7B2 DIODE US1060 DIODE 10E2N	ZL MC			1101 1151 1201	1-410-779-21 1-410-780-11 1-410-779-21	
	D710 D711 D714	8-719-200-77 8-719-200-77 8-719-933-79	DIODE 10E2N DIODE 10E2N DIODE HZS120				L251 LPF151	1-410-780-11	INDUCTOR 27MMH FILTER, LOW PASS
	D715 D716 D717	8-71 9-200-77 8-71 9-200-77 8-71 9-200-77					M1 001	1-235-980-11 X-3391-130-1 3-392-709-01	FILTER, LOW PASS MOTOR ASSY MTR REEL BLK
		111				3 3			

TC-K630/K630ES

Ref.No.	Part No.	Description		Ref.No.	Part No.	Description			
		SOLENOID, PLUNGER		Q903 Q904	8-729-900-61 8-729-900-61	TRANSISTOR DT	A114ES		
Q101 Q151 Q152	8-729-119-78	TRANSISTOR 2SD2144S TRANSISTOR 2SC2785 TRANSISTOR 2SC3623-L		Q905 Q906	8-729-900-61 8-729-900-61	TRANSISTOR DT	A114ES		
Q201 Q251		TRANSISTOR 2SD2144S TRANSISTOR 2SC2785		Q907 Q908 Q909	8-729-900-61 8-729-900-61 8-729-900-89	TRANSISTOR DTA TRANSISTOR DTA TRANSISTOR DTA	A1.14ES		
Q2 52 Q3 01		TRANSISTOR 2SC3623-L TRANSISTOR 2SD2144S			1-807-509-11	TRANSISTOR DT	(HEAD	SW)	
0401 0511	8-729-922-37	TRANSISTOR 2SD2144S TRANSISTOR 2SC3623-L		Q1002 R101	1-807-509-11	PHOTO SENSOR CARBON	3 9K	5%	1/4W
0512 0513 0514	8-729-107-77 8-729-107-77 8-729-900-61			R1 02 R1 03	1-247-700-11	CARBON CARBON	100 130K		1/4W 1/4W
Q515 Q516	8-729-900-80	TRANSISTOR DTC114ES TRANSISTOR DTC114ES		R1 04 R1 05 R1 06	1-247-722-11 1-247-716-11 1-247-138-00	CARBON	5.6K 1.8K 2K	5% 5% 5%	1/4W 1/4W 1/4W
Q517 Q517	8-729-173-38	TRANSISTOR 2SA733 TRANSISTOR DTC114ES		R1 07 R1 08	1-247-887-00		22 OK 1 OK	5% 5%	1/4W 1/4W
Q519 Q520	8-729-119-78	TRANSISTOR DIGITALS TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R109 R110	1-249-431-11		15K 2.2K	5% 5%	1/4W
Q521 Q551	8-729-900-89	TRANSISTOR DTC114ES TRANSISTOR DTC144ES		R111 R112	1-249-415-11	CARBON	680 6.8K	5%	1/4W 1/4W
Q651 Q652	8-729-920-26	TRANSISTOR DTB114ES TRANSISTOR DTB114ES		R113 R114 R115	1-259-419-11 1-259-437-11 1-259-443-11	CARBON CARBON CARBON	430 2.4K 4.3K		1/6W 1/6W 1/6W
Q653 Q654	8-729-920-26 8-729-900-80	TRANSISTOR DTB114ES TRANSISTOR DTC114ES		R116	1-249-441-11	CARBON	100K		1/4W
Q655 Q701 Q702	8-729-900-80	TRANSISTOR DTC114ES TRANSISTOR DTC114ES TRANSISTOR 2SD1761-E		R117 R151	1-249-429-11		10K 2.2K	5%	1/4W 1/4W
0703 0704	8-729-904-27			R1 52 R1 53 R1 54	1-249-441-11 1-249-441-11 1-249-423-11	CARBON CARBON CARBON	100K 100K 3.3K	5% 5% 5%	1/4W: 1/4W 1/4W
0705 0706	8-729-110-33			R1 55 R1 56	1-249-428-11 1-259-419-11	CARBON CARBON	8.2K 430	5%	1/4W 1/6W
0707 0708	8-729-904-27			R157 R158	1-259-443-11	CARBON	4.3K 2.4K		1/6W
Q709 Q710	8-729-119-78	TRANSISTOR DTC143TS TRANSISTOR 2SC2785 TRANSISTOR 2SD1585-L	e di Herbitania.	R159 R160	1-249-427-11 1-249-415-11	CARBON CARBON	6.8K 680	5% 5%	1/4W 1/4W
Q751 Q752	8-729-119-78	TRANSISTOR 2SC2785		R161 R162 R163	1-247-722-11 1-249-561-11 1-247-725-11	CARBON CARBON CARBON	5.6K 2.4K 10K		1/4W 1/4W 1/4W
Q753 Q754	8-729-900-74	TRANSISTOR 2SC2785 TRANSISTOR DTC143TS		R164 R165	1-249-417-11	CARBON CARBON	1K 100K	5%	1/4W 1/4W
Q755 Q756 Q757	8-729-173-38 8-729-173-38 8-729-111-67	TRANSISTOR 2SA733 TRANSISTOR 2SA733 TRANSISTOR 2SB1094-L		R166	1-247-721-11	CARBON	4.7K	5% 5%	1/4W
Q801 Q802	8-729-900-65 8-729-900-65	TRANSISTOR DTA144ES TRANSISTOR DTA144ES		R168 R169	1-249-432-11	CARBON CARBON	18K 10	5% 5%	1/4W
Q803 Q804 Q805	8-729-900-65 8-729-177-43 8-729-801-83	TRANSISTOR DTA144ES TRANSISTOR 2SD774 TRANSISTOR 2SB1013		R170 R171	1-247-883-00	CARBON CARBON	150K 10K	5% 5%	1/4W 1/4W
0806	8-729-801-83	TRANSISTOR 2SB1013		R3 01 R3 02	1-259-436-11	CARBON		5%	1/6W
Q807 Q808 Q809	8-729-205-02 8-729-801-83 8-729-801-93	TRANSISTOR 2SA1150 TRANSISTOR 2SB1013 TRANSISTOR 2SD1387	5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	R3 03 R3 04	1-215-453-00 1-215-457-00	METAL METAL	22K 33K	1% 1%	1/6W 1/6W
Q810 Q811	8-729-801-93 8-729-801-83	TRANSISTOR 2SD1387 TRANSISTOR 2SB1013	. 0	R305 R306 R307	1-249-408-11 1-249-436-11 1-249-429-11	CARBON CARBON CARBON	180 39K 10K	5% 5% 5%	1/4W 1/4W 1/4W
Q812 Q851	8-729-900-61 8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES		R3 0 8 R3 0 9	1-247-713-11 1-249-497-11	CARBON CARBON	1 K 33 K	5% 5%	1/4W
0852 0901 0902	8-729-900-61 8-729-900-61 8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES		R311	1-249-433-11	CARBON	22K	5%	1/4W

	Ref.No.	Part No.	Description			Ref.No.	Part No.	Description				
-	R312 R313 R314	1-249-421-11 1-247-862-11 1-247-704-11	CARBON CARBON CARBON	2.2K 5% 20K 5% 220 5%	1/4W 1/4W 1/4W	R654 R655 R701	1-249-425-11 1-249-427-11 1-249-413-11	CARBON CARBON CARBON		5% 5% 5%	1/4W 1/4W 1/4W	
	R315 R316 R351	1-215-453-00 1-215-454-00 1-249-425-11	METAL METAL CARBON	22K 1% 24K 1% 4.7K 5%	1/6W 1/6W 1/4W	R702 R703 R704	1-249-425-11 1-249-429-11 1-249-421-11	CARBON CARBON CARBON	4.7K 10K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W	
	R503 R504 R511	1-249-437-11 1-215-469-00 1-249-429-11	CARBON METAL CARBON	47K 5% 100K 1% 10K 5%	1/4W 1/6W 1/4W	R705 R706 R707	1-249-421-11 1-249-426-11 1-249-429-11	CARBON CARBON CARBON	5.6K 10K	5% 5% 5%	1/4W 1/4W 1/4W	
	R512 R513 R514	1-249-437-11 1-249-437-11 1-215-469-00	CARBON CARBON METAL	47K 5% 47K 5% 100K 1%	1/4W 1/4W 1/6W	R708 R709 R710	1-249-433-11 1-247-752-11 1-249-417-11	CARBON CARBON CARBON	22K 1K 1K	5% 5% 5%	1/4W 1/2W 1/4W	
	R515 R516 R517	1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	10K 5% 10K 5% 10K 5%	1/4W 1/4W 1/4W	R711 R712 R713	1-249-425-11 1-249-426-11 1-249-417-11	CARBON CARBON CARBON	4.7K 5.6K 1K	5% 5% 5%	1/4W 1/4W 1/4W	
	R519 R520 R521	1-247-864-11 1-249-441-11 1-249-421-11	CARBON CARBON CARBON	24K 5% 100K 5% 2.2K 5%	1/4W 1/4W 1/4W	R751 R752 R753	1-247-710-11 1-247-714-11 1-247-704-11	CARBON CARBON CARBON	560 1.2K 220	5%	1/4W 1/4W 1/4W	
	R522 R523 R524	1-249-427-11 1-249-437-11 1-249-426-11	CARBON CARBON CARBON	6.8K 5% 47K 5% 5.6K 5%	1/4W 1/4W 1/4W	R754 R755 R756	1-247-725-11 1-247-708-11 1-247-717-11	CARBON CARBON CARBON	10K 470 2.2K	5% 5% 5%	1/4W 1/4W 1/4W	
	R525 R526 R527	1-247-840-00 1-249-425-11 1-249-440-11	CARBON CARBON CARBON	2.4K 5% 4.7K 5% 82K 5%	1/4W 1/4W 1/4W	R757 R758 R759	1-247-717-11 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	2.2K 2.2K 2.2K		1/4W 1/4W 1/4W	
	R528 R529 R530	1-249-440-11 1-249-390-11 1-249-429-11	CARBON CARBON CARBON	82K 5% 5.6 5% 10K 5%	1/4W 1/4W 1/4W	R801 R802 R803	1-249-441-11 1-249-425-11 1-249-441-11	CARBON CARBON CARBON	100K 4.7K 100K		1/4W 1/4W 1/4W	
	R531 R532 R533	1-249-429-11 1-249-431-11 1-249-434-11	CARBON CARBON CARBON	10K 5% 15K 5% 27K 5%	1/4W 1/4W 1/4W	R805 R806 R807	1-249-437-11 1-247-903-00 1-247-887-00	CARBON CARBON CARBON	47K 1M 220K	5% 5% 5%	1/4W 1/4W 1/4W	
	R534 R551 R552	1-249-439-11 1-249-437-11 1-249-437-11	CARBON CARBON CARBON	68K 5% 47K 5% 47K 5%	1/4W 1/4W 1/4W	R808 R809 R810	1-247-887-00 1-249-435-11 1-249-435-11	CARBON CARBON CARBON	220K 33K 33K	5% 5% 5%	1/4W 1/4W 1/4W	
	R553 R554 R555	1-249-429-11 1-249-421-11 1-249-409-11		10K 5% 2.2K 5% 220 5%	1/4W 1/4W 1/4W	R811 R812 R813	1-249-409-11 1-249-409-11 1-249-418-11	CARBON CARBON CARBON	220 220 1.2K	5% 5% 5%	1/4W 1/4W 1/4W	
	R601 R602 R603	1-249-435-11 1-247-874-11 1-247-880-11	CARBON	33K 5% 62K 5% 110K 5%	1/4W 1/4W 1/4W	R814 R815 R816	1-249-423-11 1-249-423-11 1-249-417-11	CARBON CARBON CARBON	3.3K 3.3K 1K		1/4W 1/4W 1/4W	
	R604 R605 R606	1-247-876-11 1-249-435-11 1-247-874-11	CARBON	75K 5% 33K 5% 62K 5%	1/4W 1/4W 1/4W	R817 R818 R819	1-249-417-11 1-249-414-11 1-249-417-11	CARBON CARBON CARBON	1K 560 1K	5% 5% 5%	1/4W 1/4W 1/4W	
	R607 R608 R609	1-247-887-00 1-249-439-11 1-249-440-11	CARBON	220K 5% 68K 5% 82K 5%	1/4W 1/4W 1/4W	R820 R821 R822	1-247-840-00 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	2.4K 1K 1K	5% 5% 5%	1/4W 1/4W 1/4W	
	R610 R611 R612	1-249-441-11 1-249-437-11 1-249-439-11	CARBON	100K 5% 47K 5% 68K 5%	1/4W 1/4W 1/4W	R823 R824 R825	1-249-437-11 1-249-437-11 1-249-437-11	CARBON CARBON CARBON	47K 47K 47K	5% 5% 5%	1/4W 1/4W 1/4W	
	R613 R614 R615	1-247-885-00 1-249-441-11 1-249-437-11	CARBON	180K 5% 100K 5% 47K 5%	1/4W 1/4W 1/4W	R826 R827 R828	1-249-437-11 1-249-437-11 1-249-437-11	CARBON CARBON CARBON	47K 47K 47K	5% 5% 5%	1/4W 1/4W 1/4W	
	R616 R617 R618	1-249-438-11 1-247-872-11 1-247-876-11	CARBON	56K 5% 51K 5% 75K 5%	1/4W 1/4W 1/4W	R82 9 R83 0 R83 1	1-249-437-11 1-249-437-11 1-249-437-11	CARBON CARBON CARBON	47K 47K 47K	5% 5% 5%	1/4W 1/4W 1/4W	
	R651 R652 R653	1-249-425-11 1-249-405-11 1-249-435-11	CARBON	4.7K 5% 100 5% 33K 5%	1/4W 1/4W 1/4W	R832 R833 R834	1-249-437-11 1-249-437-11 1-249-430-11		47K 47K 12K	5% 5% 5%	1/4W 1/4W 1/4W	
						ı						

Ref.No.	Part No.	Descripti	on			
R83 5	1-247-862-11	CARBON	20K	5%	1/4W	
R83 6	1-249-431-11	CARBON	15K	5%	1/4W	
R83 7	1-249-425-11	CARBON	4.7K	5%	1/4W	
R83 8	1-249-437-11	CARBON	47K	5%	1/4W	
R83 9	1-249-405-11	CARBON	100	5%	1/4W	
R840	1-249-429-11	CARBON	10K	5%	1/4W	
R851	1-247-903-00	CARBON	1M	5%	1/4W	
R852	1-249-422-11	CARBON	2.7K	5%	1/4W	
R853	1-249-432-11	CARBON	18K	5%	1/4W	
R854	1-249-430-11	CARBON	12K	5%	1/4W	
R855	1-249-437-11	CARBON	47K	5%	1/4W	
R901	1-249-407-11	CARBON	150	5%	1/4W	
R902	1-249-407-11	CARBON	150	5%	1/4W	
R903	1-249-411-11	CARBON	330	5%	1/4W	
R904	1-249-407-11	CARBON	150	5%	1/4W	
R905	1-249-441-11	CARBON	100K	5%	1/4W	
R906	1-249-441-11	CARBON	100K	5%	1/4W	
R907	1-249-441-11	CARBON	100K	5%	1/4W	
R908	1-249-441-11	CARBON	100K	5%	1/4W	
R909	1-249-441-11	CARBON	100K	5%	1/4W	
R910	1-249-441-11	CARBON	100K	5%	1/4W	
R911	1-249-441-11	CARBON	100K	5%	1/4W	
R912	1-249-441-11	CARBON	100K	5%	1/4W	
R913	1-249-441-11	CARBON	100K	5%	1/4W	
R914	1-249-441-11	CARBON	100K	5%	1/4W	
R915	1-249-441-11	CARBON	100K	5%	1/4W	
R916	1-249-441-11	CARBON	100K	5%	1/4W	
R917	1-249-441-11	CARBON	100K	5%	1/4W	
R918	1-249-441-11	CARBON	100K	5%	1/4W	
R919	1-249-429-11	CARBON	10K	5%	1/4W	
R92 0	1-249-437-11	CARBON	47K	5%	1/4W	
R92 1	1-249-437-11	CARBON	47K	5%	1/4W	
R92 2	1-249-437-11	CARBON	47K	5%	1/4W	
R923	1-215-452-00	METAL	20K	1%	1/6W	
R924	1-215-452-00	METAL	20K	1%	1/6W	
R925	1-215-452-00	METAL	20K	1%	1/6W	
R926	1-215-452-00	METAL	2 OK	1%	1/6W	
R927	1-215-452-00	METAL	2 OK	1%	1/6W	
R928	1-215-452-00	METAL	2 OK	1%	1/6W	
R92 9	1-215-452-00	METAL	20K	1%	1/6W	
R93 0	1-215-445-00	METAL	10K	1%	1/6W	
R93 1	1-215-445-00	METAL	10K	1%	1/6W	
R932	1-215-445-00	METAL	1 OK	1%	1/6W	
R933	1-215-445-00	METAL	1 OK	1%	1/6W	
R934	1-215-445-00	METAL	1 OK	1%	1/6W	
R93 5 R93 6 R93 7	1-215-445-00 1-215-460-00 1-215-425-00	METAL METAL METAL	43 K	1% 1% 1%	1/6W 1/6W 1/6W	
RV101 RV151 RV152	1-228-993-00 1-228-995-00 1-228-995-00	RES, ADJ,	CARBON 5K CARBON 20K CARBON 22K		BIAS (L))	
RV2 01 RV2 51 RV2 52	1-228-993-00 1-228-995-00 1-228-995-00	RES, ADJ,	CARBON 5K CARBON 20K CARBON 22K		BIAS (R))	
RV511 RV512 RV513	1-238-097-11 1-238-085-11 1-238-373-11	REA, VAR,	CARBON 20K CARBON 20K CARBON 5K	/2 OK (PHONES LEVEL)	

Ref.No.	Part No.	Description
S511 S512 S701	1-571-741-11 1-571-742-11 1-570-103-21	SWITCH, ROTARY (DOLBY NR) SWITCH, ROTARY (MPX FILTER) SWITCH, PUSH (1 KEY)(POWER)
	1-570-307-11 1-571-742-11 1-554-596-21	(E)SWITCH, VOLTAGE CHANGE SWITCH, ROTARY (MONITOR) SWITCH, KEY BOARD (■)
\$902 \$903 \$904 \$905 \$906 \$907	1-554-596-21 1-554-596-21 1-554-596-21 1-554-596-21 1-554-596-21 1-554-596-21	SWITCH, KEY BOARD (►►) SWITCH, KEY BOARD (►◄) SWITCH, KEY BOARD (▷) SWITCH, KEY BOARD (REC●) SWITCH, KEY BOARD (PAUSE ■) SWITCH, KEY BOARD (REC MUTE ●)
\$908 \$909 \$910	1-554-596-21 1-554-596-21 1-554-596-21	SWITCH, KEY BOARD (TAPE OPERATION) SWITCH, KEY BOARD (RESET) SWITCH, KEY BOARD (MEMORY)
S911 S1001 S1002	1-554-423-00 1-571-081-11 1-571-081-11	SWITCH, SLIDE (TIMER) SWITCH (ERASE PROOF) SWITCH (CASSETTE HALF DET)
S1 003 S1 004 S1 005		SWITCH (70u DET) SWITCH (METAL DET) SWITCH, LEAF
SPK151	1-235-186-00 1-235-186-00 1-235-186-00 1-235-186-00	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT
T151 T251 T511	1-433-344-11 1-433-344-11 1-433-343-11	TRANSFORMER, BIAS OSCILLATION TRANSFORMER, BIAS OSCILLATION TRANSFORMER, BIAS OSCILLATION
T701 🔏	\.1-449-484-11 \.1-449-575-11 \.1-449-576-11	(AEP,UK)TRANSFORMER, POWER (E)TRANSFORMER, POWER (US,K630)TRANSFORMER, POWER
THP701	1-808-612-11	THERMISTOR, POSITIVE
X801 X851	1-567-772-11 1-527-532-00	VIBRATOR, CERAMIC 4.19MHz OSCILLATOR, CERAMIC 400kHz
ACCESSORY & PACKING MATERIAL		
1	-551-734-11 C	(E)REMOTE COMMANDER (RM-J600) CORD, CONNECTION (RK-74A) CUSHION
		(K63OES)INDIVIDUAL CARTON (K63O)INDIVIDUAL CARTON
3	-750-049-21 (-750-049-31 ((AEP,UK,E)MANUAL, INSTRUCTION (US)MANUAL, INSTRUCTION (K630)MANUAL, INSTRUCTION (AEP)MANUAL, INSTRUCTION
		(US)INSTRUCTION (E)INSTRUCTION
4	-384-285-01 ((E)COVER, BATTERY
fied l	: components ider by mark M or d	ot- une marque / sont critiques

ted line with mark A are critical for safety.
Replace only with part number specified.

pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

English 89B0572-1